

45 m3 Semi Trailer LPG Transport Tank

1) TECHNICAL SPECS OF SEMI-TRAILER

CHASSIS	Will be made of material with "IPE" type cross-section. Cross traverses will be in the shape of "I". All sections will be welded with gas arc welding.
AXLE	Local brand, 3 x 9 tons loading capacity, local brand axles.
SUSPENSION SYSTEM	SAF Brand Air Bag Suspension
BRAKE SYSTEM	EBS with drum system.
SUPPORT/LIFT LEGS	Each one has 24 tons bearing capacity.
WHEELS	385/65 R22.5, BRIDGESTONE brand, 6 pieces + 1 Spare
RIMS	11.75 x 22.5, Local Brand, 6 pieces + 1 Spare
FENDERS	Made of plastic.
KING PIN	2" flanged type. Resistant against stress and rupture. Made of forged steel. Bolted system and easily detachable.
ELECTRICAL SYSTEM	24V system with standard 7 pole plug conforming to European norms. Signature plate lighting lamps. Signal lamps. Parking, braking and reversing lamps. Side lamps. There will be some warning stickers on the tank and trailer.
ACCESSORIES	1 pc Cabinet for loading-unloading system. 2 pc Cabinet for Fire Extinguisher 1 pc Bumper 1 pc Water Tank 1 pc Spare Tire Bearer Basket 1 pc Plastic Chock and its port 1 set Sunshade
Warranty	Mechanical parts will be under warranty during 1 year against production defects.

NOTE :

- King-pin height from the ground : 1180 mm
- The distance between axles : 1310 mm

2) TECHNICAL SPECS OF LPG TANK

Brand and Condition	Brand: HARSAN Condition: Brand New
Volume	45 m ³
Tare Weight (Approx.)	11500 kg
Max. Payload	21450 kg (regarding 85% filling rate)
Diameter	2430 mm
Length	11800 mm
Height	3800 mm
Shell Plate Thickness	10 mm
Dished End Plate Thickness	12 mm
Manhole	16"
Warranty	Mechanical parts will be under warranty during 1 year against production defects.

3) DESIGN DATA OF TANK

Design Standard	AD 2000 Merkblatt
Tank and Dished End Type	Tank Body Type: Horizontal and Cylindrical Dished Ends Type: Ellipsoidal
Design Temperature	-20°C / +50°C
Design Pressure	18,5 bar
Material	Material Conform to AD 2000 / P355 GH
Welding	EN 9606-1 and ISO14732 Certified welder and welding operators according to their standards Welding materials conforming to EN ISO 14171 and 14341. Shell and Caps Welding: SAW or SMAW + SAW Nozzle Welding' : GTAW or SMAW
Heat Treatment	Will be applied to only dished ends.
Painting System	Sand blasting according to SIS 05 5900 in SA 2.5 degree. One layer shop primer anti-corrosion. One layer epoxy primer. One layer final acrylic paint.

4) INSPECTION

Certificate of Conformity to Resource Quality Requirements Welding	Radiographic and ultrasonic examination.
Hydrostatic Test	A third party authorized by hydrostatic testing at 24.6 bar.
Leak Test	Tested with by HARSAN.

5) ACCESSORIES

1 Pc Hydraulic Operator
1 Pc Hydraulic Valve DN80 PN40
2 Pc Hydraulic Valve DN50 PN40
2 Pc Mono Block Ball Valve DN50 PN40
1 Pc Mono Block Ball Valve DN40 PN40
2 Pc 3 ¼" Acme Flange + Cover
1 Pc 2 ¼" Acme Flange + Cover
2 Pc Safety Relief Valve 3" NPT
1 Pc 4" Rochester Brand Magnetic Level Gauge
1 Pc Drain Valve 1 ¼" NPT
1 Pc Manometer + Excess Flow Valve
1 Pc Thermometer

6) Certificate

ISO 9001-2015 * HARSAN Certificate of Quality Management System
ISO 3834-2* HARSAN Certificate of Conformity to Resource Quality Requirements
EN 10204 / 3.1 *Certificate of Pressure Vessel Material
Certificate of Ultrasonic and Radiographic Inspection.
Certificate of Hydrostatic Test.
EN 9606-1 * Certificate of Welding
ISO14732 * Certificate of Welding Operator
Certificate of Accessories

